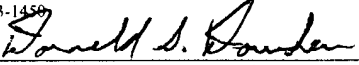


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Masanori Ogawa, et al.  
Serial No. : 10/528,393 Group: Not Yet Known  
Filed : March 18, 2005 Examiner: Not Yet Known  
For : A Method for Manufacturing a Masking Member Made of a Synthetic Resin  
Group : Not Yet Known  
Examiner : Not Yet known

I hereby certify that this paper is being deposited this date with the U.S. Postal Service in first class mail addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
  
Donald S. Dowden Date  
Reg. No. 20,701 July 19, 2005

Cooper & Dunham, LLP  
1185 Avenue of the Americas  
New York, New York 10036  
July 19, 2005


Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

COMMUNICATION RE TRANSLATION OF  
THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Sir:

We are submitting herewith a translation of the PCT International Preliminary Examination Report (form PCT/IPEA/409), along with a copy of PCT Notification of Transmittal of Copies of Translation of the International Preliminary Examination Report (form PCT/IB/338).

Respectfully submitted,  
COOPER & DUNHAM LLP

  
Donald S. Dowden  
Reg. No. 20,701

Translation

PATENT COOPERATION TREATY

PCT/JP2003/011272



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

|   |  |  |
|---|--|--|
| Applicant's or agent's file reference<br>NOPCT-30   | FOR FURTHER ACTION<br>See Form PCT/IPEA/416                                  |  |
| International application No.<br>PCT/JP2003/011272  | International filing date (day/month/year)<br>03 September 2003 (03.09.2003) | Priority date (day/month/year)<br>20 September 2002 (20.09.2002) |
| International Patent Classification (IPC) or national classification and IPC<br>B29C 33/38, B05B 15/04, B05D 1/32 |  |  |
| Applicant<br>NAGOYA OILCHEMICAL CO., LTD.   |  |  |

|  |  |
|--|--|
| <p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> |  |
| <p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>  |  |

|  |  |
|--|--|
| Date of submission of the demand<br>01 April 2004 (01.04.2004) | Date of completion of this report<br>14 July 2004 (14.07.2004) |
| Name and mailing address of the IPEA/JP                        | Authorized officer   |
| Facsimile No.  | Telephone No.  |

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/011272

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:

- ☐ international search (under Rules 12.3 and 23.1(b))  
☐ publication of the international application (under Rule 12.4)  
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☒ The international application as originally filed/furnished

☐ the description:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the claims:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the drawings:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JF 03/11272

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

|                               |        |      |     |
|-------------------------------|--------|------|-----|
| Novelty (N)                   | Claims | 1--9 | YES |
|                               | Claims |      | NO  |
| Inventive step (IS)           | Claims |      | YES |
|                               | Claims | 1--9 | NO  |
| Industrial applicability (IA) | Claims | 1--9 | YES |
|                               | Claims |      | NO  |

## 2. Citations and explanations

## Documents

Document 1: EP 1110619 A1 (Nagoya Oilchemical Co., Ltd.), 27 June 2001, paragraphs [0087], [0090], & WO 00/13804 A1, & JP 2000-167452 A, paragraphs [0021], [0023]

Document 2: US 2001-0018622 A1 (Naoki Asano), 30 August 2001, paragraph [0004], & JP 2000-43052 A, paragraph [0002]

Document 3: JP 10-29081 A (Amada Co., Ltd.), 3 February 1998, paragraphs [0001]-[0003] (Family: none)

Document 4: US 5134911 A (Gerber Garment Technology, Inc.), 4 August 1992, column 3, lines 15-28, & JP 5-96494 A, paragraph [0012]

## Explanation

## Claims 1 and 2

Document 1 discloses a feature wherein trimming is carried out after a masking member has been formed by vacuum-molding. Further, it is obvious that a die having a cavity of a desired shape is made when performing vacuum-molding.

Document 2 indicates that because almost all product design is performed using CAD, die design is also performed based on the CAD data for a product.

Meanwhile, a masking material is designed according to the shape of the member on which masking is to be carried out, but at the time the present application was filed, CAD was already being tested in the design of a variety of products, and thus, it would be easy to use CAD to design a member on which masking is to be carried out; moreover, when a member on which masking is to be carried out is designed using CAD, a person skilled in the art could easily conceive of also trying to use CAD to design the corresponding masking material.

Therefore, a person skilled in the art could easily conceive of adapting the invention disclosed in document 1 by designing a masking material using CAD, a technique already known at the time of filing of the present application, and based on the CAD data for the masking material, designing a die which has a cavity of a desired shape for use in vacuum-molding.

#### Claims 3 to 7

Document 3 discloses broadly applicable automated processing techniques such as trimming, and discloses a feature wherein a processing shape is input using CAD input format, a route for performing processing is designated, and NC programming data is generated.

A person skilled in the art could easily conceive of adapting the invention disclosed in document 1 by applying the trimming method disclosed in document 3 for trimming performed after molding.

When doing so, the object being trimmed must be fixed in place, and it is obvious that an appropriate means that does not move during trimming and which is easily detachable could be implemented as the affixation method; therefore, a person skilled in the art could easily derive the invention described in claims 3 to 7.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 03/11272

Claims 8 and 9

Document 4 discloses a cutting tool for a sheet material wherein an ultrasonically vibrated knife, a water jet, or the like can be automatically moved by a computer control system.

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II  
OF THE PATENT COOPERATION TREATY)  
(PCT Rule 72.2)

To:

USAMI, Tadao  
No.102, 32, Tsukimigaoka  
Yatomi-cho, Mizuho-ku  
Nagoya-shi, Aichi 467-0035  
JAPON

Date of mailing (*day/month/year*)  
23 June 2005 (23.06.2005)

Applicant's or agent's file reference  
NOPCT-30

**IMPORTANT NOTIFICATION**

International application No.  
PCT/JP2003/011272

International filing date (*day/month/year*)  
03 September 2003 (03.09.2003)

Applicant

NAGOYA OILCHEMICAL CO., LTD. et al

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

**2. Transmittal of the copy of the translation to the elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CA, CN, EP, KR

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AU, US

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 70 10